Aluminum AC90-HL 600V
XLP Insulation



APPLICATION:

AC90-HL cables are for open and concealed wiring in dry locations only. For use in cable troughs and ventilated flexible cableway. Minimum recommended installation temperature is minus 40ºC. Maximum conductor temperature is 90ºC. Approved for use with ceiling fixtures. Approved for use in and relating to Class I, II, and III, Division 1 and 2 Hazardous Locations.

CONDUCTORS:

- Compact bare AA-8000 series aluminum alloy, Class B stranded per ASTM

INSULATION:

- Abrasion, heat and moisture resistant, -40ºC rated cross-linked polyethylene insulation (XLP)

ASSEMBLY:

- The insulated conductors and a bare aluminum bonding wire cabled together wrapped with a paper or mylar tape

ARMOUR:

- Interlocked aluminum applied over the cable assembly

STANDARDS:

- CSA C22.1 Canadian Electrical Code
- CSA C22.2 No. 51 Armoured Cables & No. 174 Cables and Cable Glands for Use in Hazardous Locations
- ASTM B800, B801

COLOUR CODE:

Cond #	Color
3C	Black - Red - Blue
4C	Black - Red - Blue - White

Part Number	Conductor		Bonding Wire Size	Min. Average Insulation	Nominal OD Over Armour	Approx. Total Weight		Ampacity* at 90°C
	Size	Min. No. of Strands						
	AWG/kcmil		AWG	mm	mm	lbs/kft	lbs/km	amps
Three Conductor								
8-03AC90	8	7	10	0.76	20.9	152	500	45
6-03AC90	6	7	8	0.76	21.4	217	714	55
4-03AC90	4	7	6	1.02	23.9	293	960	75
3-03AC90	3	7	6	1.02	24.4	347	1139	85
2-03AC90	2	7	6	1.02	26.8	387	1271	100
1-03AC90	1	18	4	1.27	29.1	466	1531	115
1/0-03AC90	1/0	18	4	1.27	31.1	554	1819	135
2/0-03AC90	2/0	18	4	1.27	33.3	652	2139	150
3/0-03AC90	3/0	18	4	1.27	35.9	772	2533	175
4/0-03AC90	4/0	18	4	1.27	39.3	954	3130	205
250-03AC90	250	35	2	1.52	42.5	1138	3736	230
300-03AC90	300	35	2	1.52	45.4	1309	4297	260
350-03AC90	350	35	2	1.52	48.0	1477	4846	280
400-03AC90	400	35	2	1.52	50.3	1642	5390	305
500-03AC90	500	35	1	1.52	54.8	1989	6529	350
600-03AC90	600	58	1	1.52	58.5	2068	6789	385
750-03AC90	750	58	1/0	1.52	64.0	2815	9238	435

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	Size	Min. No. of Strands						
	AWG/kcmil		AWG	mm	mm	lbs/kft	lbs/km	amps
Four Conductor								
8-04AC90	8	7	10	0.76	21.9	199	654	45
6-04AC90	6	7	8	0.76	23.7	270	885	55
4-04AC90	4	7	6	1.02	26.6	361	1185	75
3-04AC90	3	7	6	1.02	27.3	437	1434	85
2-04AC90	2	7	6	1.02	29.6	483	1586	100
1-04AC90	1	18	4	1.27	32.8	597	1960	115
1/0-04AC90	1/0	18	4	1.27	34.9	701	2300	135
2/0-04AC90	2/0	18	4	1.27	36.9	826	2711	150
3/0-04AC90	3/0	18	4	1.27	39.8	1015	3330	175
4/0-04AC90	4/0	18	4	1.27	43.0	1215	3987	205
250-04AC90	250	35	2	1.52	47.0	1448	4753	230
300-04AC90	300	35	2	1.52	50.0	1671	5485	260
350-04AC90	350	35	2	1.52	52.8	1891	6207	280
400-04AC90	400	35	2	1.52	55.5	2110	6925	305
500-04AC90	500	35	1	1.52	60.3	2562	8407	350
600-04AC90	600	58	1	1.52	65.7	3481	11423	385
750-04AC90	750	58	1/0	1.52	70.8	3644	11960	435

All values are nominal and subject to correction.

** Ampacity for not more than three conductors in raceway or cable or earth (directly buried), based on ambient temperature of 30°C per Table 4 of 2018 Canadian Electrical Code for cable with three current caring conductors.*

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